

PERMIT APPLICATION NUMBER: NRS#03.293

APPLICANT: Town of Kingston Springs
Office of the City Manager
P.O. Box 256
Kingston Springs, Tennessee 37082
(615) 952-2110

LOCATION: The proposed project is located at Kingston Springs Branch, a small tributary to the Harpeth River, Cheatham County, Tennessee.

WATERSHED DESCRIPTION: Kingston Springs Branch is a small spring-fed tributary located within the Harpeth River Watershed. The immediate area of the project is predominantly urban. The stream channel in the vicinity of the project area varies from 12 to 15 feet in width. The streambed consists of fractured limestone bedrock, with several ledges varying from a few inches to about 2 feet in height. The streambed slope at the site is 0.6 %. The riparian vegetation consists mixed hardwood trees with the understory consisting mostly of privet. The stream channel at the project site is approximately 3 feet deep.

DESCRIPTION: The project will consist of the construction of a sand bag weir across the stream in order to create a small pool area. The sand bags will contain a 1: 1 mixture of sand/cement (mortar mix), and when hardened will form a structure resistant to being washed out by flood flows. The weir will be trapezoidal in cross section, with a 5-feet wide base and a 2-feet wide top. The length of the weir will be about 18 feet. The weir will extend about 2 feet into the stream bank at each end. The weir height will be about 2.5 feet.

Water withdrawal from the pool area will be accomplished by way of a 4-inch diameter polyvinyl chloride (PVC) pipe with a screened inlet. The PVC pipe will be installed in a trench in an old roadbed which parallels the creek. The pipe will feed water into the irrigation system water storage pond located approximately 300 feet downstream.

PERMIT COORDINATOR: Dorsey Horne, STATE OF TENNESSEE, Department of Environment and Conservation, Division of Water Pollution Control, 7th Floor, L & C Annex, 401 Church Street, Nashville, Tennessee 37243-1534

USGS QUAD: KINGSTON SPRINGS, TENNESSEE 305-SE

KINGSTON SPRINGS QUADRANGLE
TENNESSEE
7.5 MINUTE SERIES (TOPOGRAPHIC)

HARPETH RIVER
Kingston Springs
KINGSTON SPRINGS BRANCH
INTERCHANGE 188
WHITE BLUFF

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